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- (71) Applicant (for all designated States except US): IN-STROMET ULTRASONICS B.V. [NL/NL]; 61, Pieter Zeemanweg, NL-3316 GZ Dordrecht (NL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): BOTTER, Eduard, Johannes [NL/NL]; 120, Herenstraat, NL-2291 BK Wateringen (NL).
- (74) Agent: VOLMER, J., C.; Exter Polak & Charlouis B.V., P.O. Box 3241, NL-2280 Ge Rijswijk (NL).

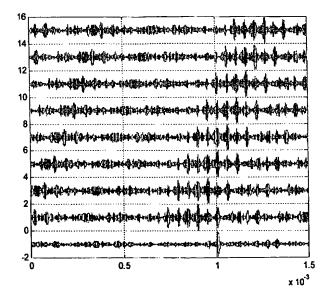
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(54) Title: ULTRASONIC SIGNAL PROCESSING METHOD AND APPLICATIONS THEREOF



(57) Abstract: An ultrasonic signal processing method for improving the signal-to-noise ratio in ultrasonic measurements comprises the transmission of a predefined timed sequence of a number of ultrasonic burst signals at a first transducer, and reception of a signal representing said transmitted sequence of ultrasonic burst signals at a second transducer. This signal is processed by addition of multiple time-shifted copies of the received signal to said original received signal to obtain a sum of the original received signal and its time-shifted copies. An original burst signal having an improved signal-to-noise ratio is reconstructed from this sum.

